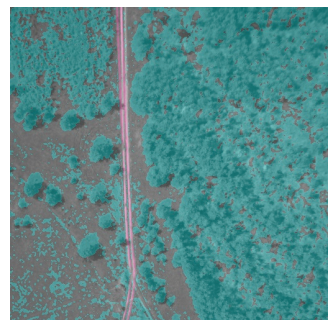
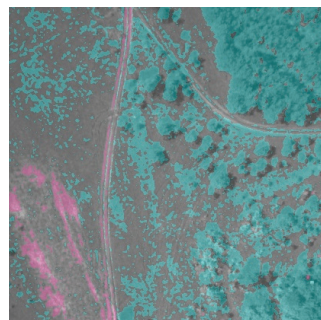
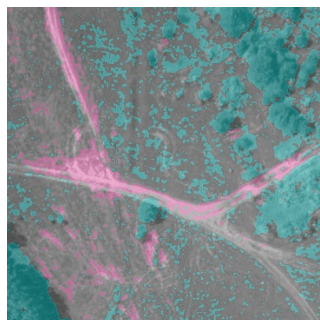
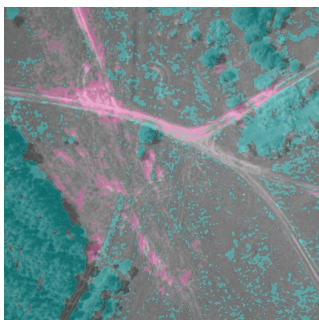


# ADVANCED NAVIGATION

## GENERAL

Robust navigation is crucial for operating any unmanned aerial vehicle. Existing systems are based on global navigation satellite systems, whose functionality can be negatively impacted or even disabled by various influences such as atmospheric disturbances or jamming. Experts at the AIT Austrian Institute of technology have developed an optical on-board navigation system as an alternative or complement to satellite-based systems.

It comprises cameras and dedicated algorithms for an accurate position and orientation estimation of the aircraft by using geographic information that is widely available. This robust estimation was integrated on the CAMCOPTER® S-100.



## CONTACT

AIT Austrian Institute of Technology  
Digital Safety & Security Department  
Donau-City-Straße 1, 1220 Vienna

## CHRISTOPH SULZBACHNER

Phone: +43(0) 50550 - 4177  
Fax: +43(0) 50550 - 2813  
E-mail: christoph.sulzbachner@ait.ac.at  
Web: [www.ait.ac.at/airborne](http://www.ait.ac.at/airborne)